

WHAT IS CLAIMED IS:

July 62 1. A liquid jet recording head comprising a constituting member formed from a cured product of a resin composition comprising:

- 5 (1) a curable epoxy compound,
(2) a compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety, and
(3) a curing agent.

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2. The liquid jet recording head according to claim 1, wherein the curing agent is a cationic polymerization initiator, and the resin composition is cured by cationic polymerization.

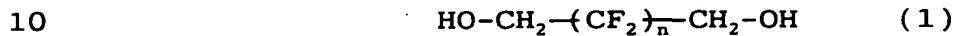
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3. The liquid jet recording head according to claim 1, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is contained in the resin composition at a content ranging from 1% to 50% by weight.

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4. The liquid jet recording head according to claim 1, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety contains fluorine at content ranging from 20% to 80% by weight.

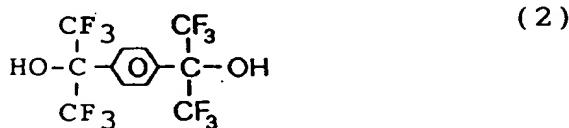
5. The liquid jet recording head according to claim 1, wherein the functional group reactive to the curable epoxy compound is a hydroxyl group.

5 6. The liquid jet recording head according to claim 5, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is represented by General Formula (1):



where n is an integer of from 1 to 20.

15 7. The liquid jet recording head according to claim 5, wherein the compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety is represented by General Formula (2):



8. The liquid jet recording head according to claim 1, wherein the curable epoxy compound is selected from aromatic epoxy compounds.

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9. The liquid jet recording head according

to claim 1, wherein the curable epoxy compound is selected from alicyclic epoxy compounds.

10. The liquid jet recording head according
5 to claim 1, wherein the curable epoxy compound is selected from epoxy compounds having an oxycyclohexane skeleton in the molecular structure thereof.

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10 11. A process for producing a liquid jet recording head, comprising the steps of:
(I) forming an ink flow path pattern from a soluble resin on an ink discharge pressure-generating element on a base plate,
(II) forming a coating resin layer on the soluble resin
15 layer, and
(III) removing the soluble resin layer by elution, wherein the coating resin layer is formed from a cured product of a resin composition comprising:
(1) a curable epoxy compound,
20 (2) a compound having a functional group reactive to the curable epoxy compound and a fluorocarbon moiety, and
(3) a curing agent.

25 12. The process for producing a liquid jet recording head according to claim 11, wherein the process further comprises a step of forming *an*

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discharge opening through the coating resin layer.

13. The process for producing a liquid jet recording head according to claim 12, wherein the
5 coating resin layer is formed from a photosensitive resin, and the discharge opening is formed by photolithography.

14. The process for producing a liquid jet recording head according to claim 12, wherein the
10 discharge opening is formed by oxygen plasma etching.

15. The process for producing a liquid jet recording head according to claim 12, wherein the
15 discharge opening is formed by excimer laser irradiation.